

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A porous membrane cartridge for extracting a nucleic acid, comprising:  
a cylindrical barrel having openings at a top end and a rear end, respectively;  
a cap formed into a cylindrical shape having a fit-in portion fitted outside said top end, abutting with an opening edge of said top end, and having a sandwiching face for sandwiching a porous membrane between itself and said barrel; and  
said porous membrane sandwiched between the opening edge of said barrel and said cap,  
wherein said cap is fixed to said barrel so as not to be pulled out of the barrel in a state of crushing a peripheral edge of said porous membrane and sandwiching the porous membrane between itself and said cap;  
and  
wherein a diameter of an inner end of the opening edge matches a diameter of an end at an inner perimeter side of the sandwiching face;  
wherein the opening edge of said barrel and the sandwiching face of said cap are welded by ultrasonic welding with a pressing force between 75N and 200N; and  
wherein in addition that the opening edge of said barrel is formed to a taper where an inner perimeter side is more retreated than an outer perimeter side, said opening edge is welded to the sandwiching face of said cap.

2. (canceled).

3. (canceled).

4. (currently amended): The porous membrane cartridge according to claim 31, wherein said taper is formed with continuing into a flat portion formed at an outmost perimeter of said opening edge.

5. (canceled).

6. (canceled).

7. (canceled).

8. (canceled).

9. (canceled).

10. (new): A porous membrane cartridge for extracting a nucleic acid, comprising:  
a cylindrical barrel having openings at a top end and a rear end, respectively;

a cap formed into a cylindrical shape having a fit-in portion fitted outside said top end, abutting with an opening edge of said top end, and having a sandwiching face for sandwiching a porous membrane between itself and said barrel;

said porous membrane sandwiched between the opening edge of said barrel and said cap,

wherein said cap is fixed to said barrel so as not to be pulled out of the barrel in a state of crushing a peripheral edge of said porous membrane and sandwiching the porous membrane between itself and said cap;

wherein a diameter of an inner end of the opening edge matches a diameter of an end at an inner perimeter side of the sandwiching face; and

wherein after said cap and said porous membrane are inserted in a cavity of an injection molding mold, a shape of a portion of said barrel is molded by injecting a molding material in said cavity.